**Molarity Practice Problems**

1) How many grams of potassium carbonate are needed to make 200 mL of a 2.5 M solution?

2) How many liters of 4 M solution can be made using 100 grams of lithium bromide?

3) What is the concentration of a 450 mL solution that contains 200 grams of iron (II) chloride?

4) How many grams of ammonium sulfate are needed to make a 0.25 M solution at a concentration of 6 M?

5) What is the concentration of a solution that has a volume of 2.5 L and contains 660 grams of calcium phosphate?

6) How many grams of copper (II) fluoride are needed to make 6.7 liters of a 1.2 M solution?

**Molarity Practice Problems – Answer Key**

1. How many grams of potassium carbonate are needed to make 200 mL of a 2.5 M solution? **69.1 grams**
2. How many liters of water are needed to make a 4 M solution using 100 grams of lithium bromide? **3.47 L**
3. What is the concentration of a solution that contains 450 mL of water and 200 grams of iron (II) chloride? **3.51 M**
4. How many grams of ammonium sulfate are needed to make a 0.25 M solution at a concentration of 6 M? **171.2 grams**
5. What is the concentration of a solution that contains 2.5 L of solvent and 660 grams of calcium phosphate? **0.85 M**
6. How many grams of copper (II) fluoride are needed to make 6.7 liters of a 1.2 M solution? **1081.4 grams**